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Find one area in the post you disagree with or that can be improved, and thoughtfully describe your position. Remember to be respectful. Your response should be at least three paragraphs (with four sentences per paragraph)1)The Electromagnetic Spectrum waves are visible waves that is based off





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of frequency and wavelength in a continuum pattern. If we were to assume that in a vacuumed space, the wavelength of an electromagnetic wave can be related to a frequency oscillating. Since there's a direct correlation between wavelength and frequency, each spectral range can be specified based







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on its wavelength ( $\lambda$ ) and frequency ( $f$ ). Equation for wavelength is the speed of light divided by frequency.  $\lambda = c/f$ , where  $\lambda$  represents the wavelength.  $C$  represents the speed of light, and  $f$  represents the frequency. One of the most common and familiar part of electromagnetic spectrum that

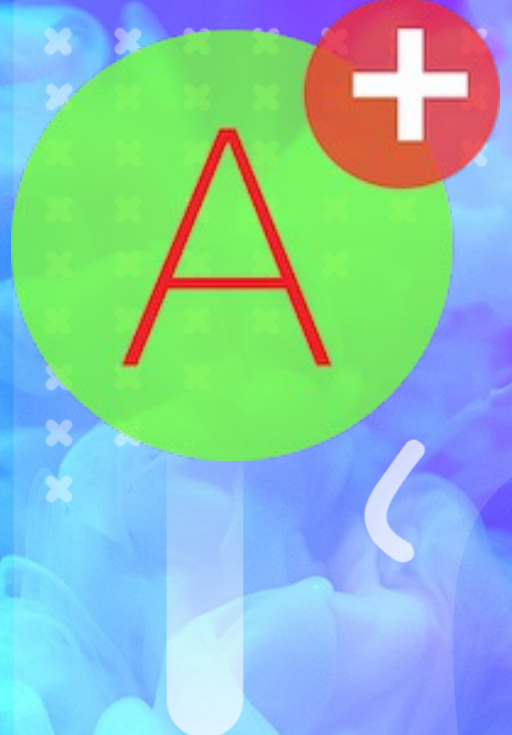




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engineers use today would be radio waves. They have one of the longest wavelengths but the lowest frequencies with the smallest level of photon energy. The radio wave was used to communicate information over a radio wave. Some examples would be like mobile phone broadcasts, television, or even





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created but those first set of microwaves ovens were nowhere near up to par with some of the modern-day microwaves and their power settings. The reason being was that the first style of microwaves only had a on or off switch. So in other words they only produced electromagnetic spectrum waves or





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not produce electromagnetic spectrum waves. One emerging and/or future technology depending on wavelength is the Recycling of Radio Waves. According to researcher led by Manos Tentzeris, "They are developing an electromagnetic energy harvester that can collect enough ambient energy from the radio







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frequency spectrum to operate devices for the internet of things, smart skin and smart city sensors, and wearable electronics."2) For this part of assignment, I selected equation that describes behavior of electric charge when Electric field is applied. Equation is  $F = qE$ . This equation interests





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me at this point because it can be linked to mechanical world with concept known as force. While we cannot typically benefit from just E-field, we do benefit from effect of electric field on the charges. Sizable amount of E field converted to current used in systems that convert Electric energy





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transfer energy from one end of wire to another. For energy transfer to occur, electric field must be applied. Each electron has constant, determined experimentally and theoretically amount of charge equal to  $1.6 \times 10^{-19}$  C. When conductor appear in constant E-field all free electron will be forced





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to edges of conductor such that sides opposite charges of the E-field source and receiving conductor will balance out. In case of varying polarity or direction of the E-field we will observe change of the polarity in the conductors that happen to be in the E- field. Now what selected equation is





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actually states is that strength of the E-field will have greater effect on the electrons. This effect of the E field on electrons humans defined as a force. One application for this equation is in design of electric motors. Electric motors conceptually are as follows. Charged particles in







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conductor (electrons) when moving, create Electric field that excites in mechanically free to move object charged particles that move to align with current carrying conductor. Charged particles in the object will be motivated to align faster and in the end with greater force when E-field is

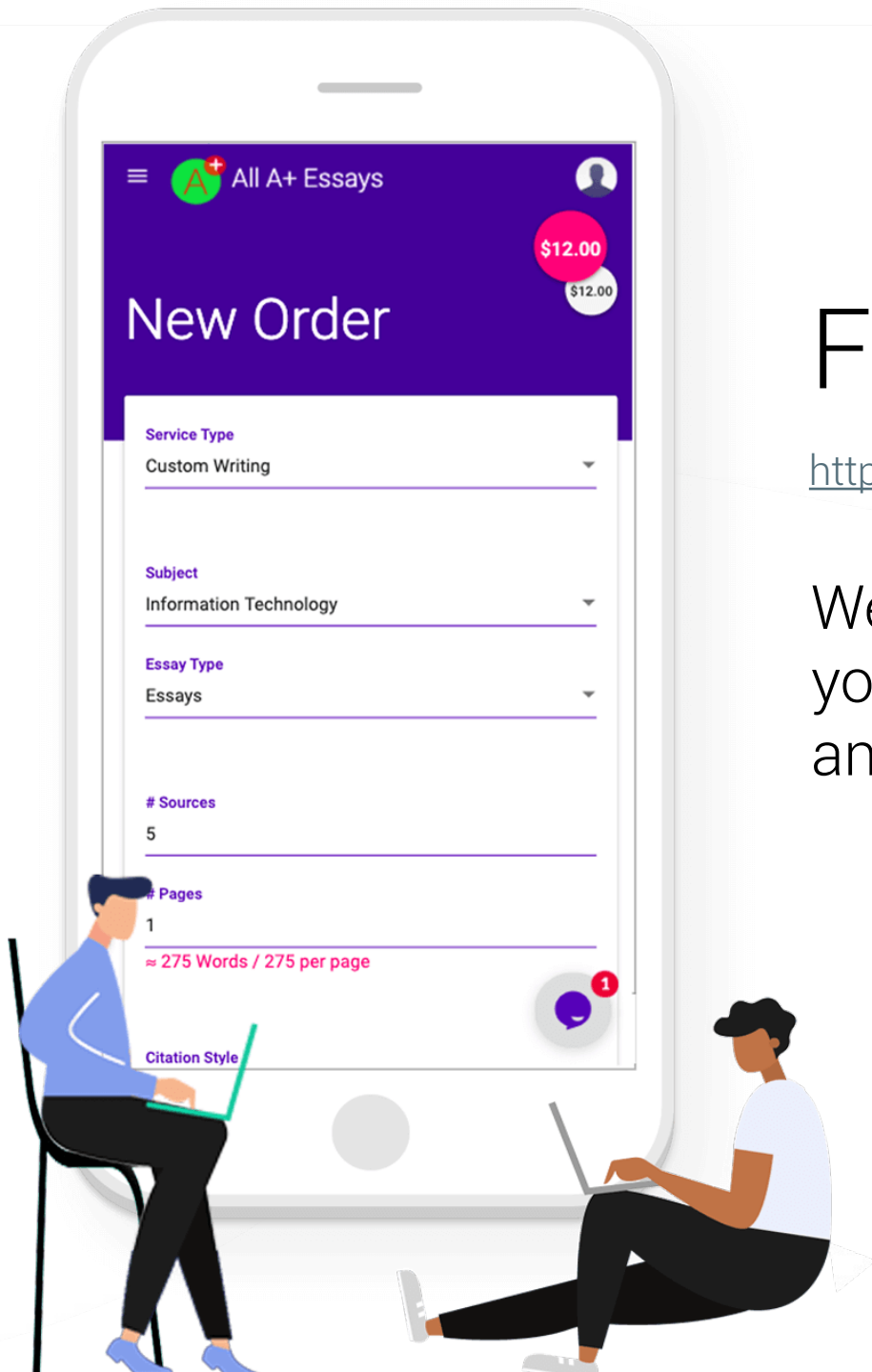


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devices. Application of electric force has expanded during last century exponentially. And yet we are not anywhere close to limit of applications to this charming phenomenon. On example of growing application of Electric force is ability to wirelessly transfer energy on short distances. For







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consumer application notably would be desire of automotive industry to use higher voltage circuits. In considerations are power circuit with 48V and higher. This potentially allows for smaller wire gages for the same amount of power transfer. 3) Maxwell's Equations state that in a static electric





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field, the divergence at one point equals to the electric charge volume density at that point divided by a magnetic field. Necessarily, it implies that a rotating magnetic field is produced by an electric current or by an electric field that changes with time (Rahm, 2008). Also, it says that a





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changing magnetic field that changes with time produces an electric field. In essence, the Equations consist of three other equations such as Gauss, Faraday, and Ampere equations. Maxwell's equations in real life can be applied in the explanation of the physics of permanent magnets. It leads to







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signals and TV transmitters (Rahm, 2008). Besides, the equation explains how the light in the visible regions is capable of creating things like interference patterns that have several usages in optical technology. Maxwell's Equations explain the antenna can be designed to get the best signal





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which is essential for a cell phone that uses radio waves. Play of video games using a computer is made possible because of the equation since it involves changing of electric and magnetic fields (Ishimaru, 2017). Besides, it is applied in the design of a microwave since it helps in knowing







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where the fields are strong or weak. Finally, the equation allows engineers to know the weight that can make a bridge to crash into the river. The advancement of technology has created another essential use of Maxwell's Equations, especially in the health sector. The equation has used in the





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determination of how body organs produce bioelectric signals. The purpose of electrocardiography, electroencephalography, and electromyography use Maxwell's Equations in checking of the diseases in different parts of the body (Ishimaru, 2017). Therefore, it is projected that the equation would



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